BRUHAT BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Name of Work: ***Improvements to 1st cross, 1st A Cross, 1st B Cross, 2nd D Cross, 3rd Cross, 4th Main & 5th Main roads of Defence colony in Ward No 14, Bagalagunte***

			Est. Cost Rs				50.00	Lakhs	
Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete and Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Kmas per specifications complete as per specifications. MORTH Chapter 3 (P.142/I.19.1 PW, P & IWTD -SR 2016-17)								
		Cum	1	150.00	0.90	0.60	81.00		
			1	5.50	1.20	0.60	3.96		
							84.96	170.92	14521.00
2	Removing B.S.Slab of drain and stacking etc., complete Page No. 25/ Item No. 5.32/ PWD SR 2016-17								
		Sqm	2	30.00	1.35		81.00		
		Consider 60% Qty					48.60		
							32.40	65.72	2129.00
3	KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180 kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.12/I.4.3) PWD - SR 2016 17)								
		Cum	2	150.00	0.75	0.15	33.75		
			1	5.50	1.20	0.15	0.99		
			1	130.00	1.20	0.15	23.40		
			1	90.00	1.20	0.15	16.20		
			1	56.00	1.20	0.15	10.08		
			1	38.00	1.20	0.15	6.84		
			1	15.00	1.20	0.15	2.70		
			2	30.00	0.30	0.10	1.80		
							95.76	5159.02	494028.00
4	KSRB 5.2.3 Providing and constructing granite/trap/basalt size stone masonry in foundation in cement motor 1:6, Stone hammered dressed in courses not less than 20 cms high. Bond stones at two m apart in each course including cost of materials, labour, curing including cost of materials, labour, curing complete as per specifications KBS 5.1.13 Page No 23/Item No 5.6/ PWD SR 2016-17.								
		Cum	2	5.50	0.60	0.60	3.96		
							3.96	4438.22	17575.00

	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications, Specification NO KBS 4.6.2 Page No 15/ Item No 4.31/PWD SR 2016-17								
		Sqm	1	5.50	1.00		5.50		
							5.50	310.58	1708.00
6	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC Cement @220 kgs with 20 mm and down size graded granite metal course aggregates @ 0.84 cum and fine aggregates @0.56 cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well comated, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per , Specification NO KBS 4.1,4.2 Page No 13/ Item No 4.7/PWD SR 2016-17								
		Sqm	2	5.50	0.45	0.10	0.49		
							0.49	5598.92	2743.00
7	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum) ((P.No.177, I.No.22.6.1 of PW,P&IWTD SR 2016-17)								
		Cum	2	5.50	1.20	0.40	5.28		
			2	8.00	0.30	1.00	4.80		
			1	130.00	3.50	0.15	68.25		
			1	90.00	4.00	0.15	54.00		
			1	56.00	5.50	0.15	46.20		
			1	38.00	6.00	0.15	34.20		
			1	15.00	6.00	0.15	13.50		
							226.23	6217.96	1406689.00
8	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of Machinery, screed Vibratory, Power Floater, blade and disc etc., with all lead and lift Page No. 178/ Item No.22.7/ PWD SR 2016-17								
		Sqm	1	130.00	3.50	0.15	68.25		
			1	90.00	4.00	0.15	54.00		
			1	56.00	5.50	0.15	46.20		

	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
			1	38.00	6.00	0.15	34.20		
			1	15.00	6.00	0.15	13.50		
							216.15	95.40	20621.00
9	Providing Concrete Groove cutting for width of 5mm to 10mm and depth 80mm100mm including cost of cutting machine generator & HOM of machinery, including cost of blade coolant etc., including cleaning of groove & Providing sand and hot bitumen fillars, and fillars metal etc., including cost of conveyance of all materials, labour lead and lift charges and all other incidental charges as per drawing and as per specifications. Page No. 178/ Item No.22.8/ PWD SR 2016-17								
		rmt	9	3.50			31.50		
			6	4.00			24.00		
			4	5.50			22.00		
			3	6.00			18.00		
			1	6.00			6.00		
							101.50	121.90	12373.00
10	Refixing stone slabs of drains and pointing in CM 1:3 etc complete Page No. 25/ Item No.5.33/ PWD SR 2016-17								
		Sqm	Qty Vide Iteam No 2				48.60	80.56	3915.00
11	Providing Granite slabs selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete 7.5 thick Page No. 25/ Item No. 5.31.1/ PWD SR 2016-17								
		Sqm	Qty vied Item No 02				81.00		
		Deduct Availabe Qty Vide Iteam No 2					48.60		
							32.40	665.68	21568.00
12	KSRB 5-14 : Providing and constructing precast concrete solid blocks with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Page No. 25/ Item No. 5.27.1/ PWD SR 2016-17								
		Sqm	4	30.00	0.40		48.00		
							48.00	993.22	47675.00
13	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. for TMT Bars Fe 500 Specification No.KBS 4.6.3 (Page No.17, Item No. 4.46.2) 2016-17								
	12mm dia bars: Culvert slab	Tonne	53	1.20	@	0.89	56.60		
	for side walls		53	3.00	@	0.89	141.51		
	10mm dia bars		6X2	8.00	@	0.62	59.52		
	fo side walls		15	8.00	@	0.62	74.40		
	10 mm dia steel across drain	Tonne	1500	1.70	2550.00	0.62	1581.00		
	10 mm dia steel along drain	Tonne	17	150.00	2550.00	0.62	1581.00		

	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
						Say	3494.03		
							3.49	59413.00	207591.00
14	Supplying and fixing precast rainforced concee slab 10cm thick including cost of reinforcement as per design and drawing material cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface stc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials.								
		Sqm	1	30.00	0.90		27.00		
	Data Rates Approved						27.00	1600.00	43200.00
15	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
		Cum	1	460.00	1.20	0.30	165.60		
			1	165.00	4.60	0.30	227.70		
							393.30	132.76	52215.00
16	KSRRB M400-1 For Grading I material construction of granular sub-base by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motir grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications.by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material . Page No 155/ Item No. 20.6.1 PWD SR 2016-17								
		Cum	1	460.00	1.20	0.15	82.80		
			1	165.00	4.60	0.15	113.85		
							196.65	1518.98	298707.00
17	Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWD SR 2016-17, P.No.158, I No.20.18)								
	Roads	Cum.	1	460.00	1.20	0.15	82.80		
			1	165.00	4.60	0.15	113.85		
							196.65	1768.08	347693.00
18	Providing and applying primer coat with S.S. Bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWDSR 2016-17, P.No.161, I No.21.6)								

	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
		Sqm	1	460.00	1.20		552.00		
			1	165.00	4.60		759.00		
							1311.00	27.56	36131.00
19	KSRRB 500-7: Providing and applying tack coat on the prepared black topped surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 161/ Item No. 21.7/ PWD SR 2016-17								
		Sqm	1	175.00	6.50		1137.50		
			1	115.00	6.00		690.00		
			1	160.00	7.00		1120.00		
							2947.50	11.66	34368.00
20	Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work (PWDSR 2016-17, P.No.162, I No.21.11.6)								
		Cum	1	460.00	1.20	0.05	27.60		
			1	165.00	4.60	0.05	37.95		
							65.55	5237.46	343316.00
21	Providing and laying bituminous concrete with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filter transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment. rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MORTH Speicification clause no 500.9 complete in all respects complete as per specification no 509. using 40/60 TPH Capacity H.M.P With Mechanical paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen (p-165, lt 21.22.6) PWD SR 2016-17								
		Cum	1	175.00	6.50	0.04	45.50		
			1	115.00	6.00	0.04	27.60		
			1	160.00	7.00	0.04	44.80		
			1	165.00	4.60	0.03	22.77		
							140.67	7270.54	1022747.00

	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	,						156.00	542.72	84664.00
22	KSRRB M200-Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonary, cement concrete, wood work,steel work, including T&P and scaffolding whereever necessary, sorting the dismanlet material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specification Lime/Cement concrete I. By Manual Means C. Prestressed /Reinforced cement concrete Grade M-20 & above (P-137, lt 18.19) PWD SR 2016-17								
		Cum	1	~~120.00~~ 116.40	6.00	0.20	~~144.00~~ 139.20		~~150798.00~~
							~~144.00~~ 139.20	1083.32	~~155998.00~~
								Sub Total	~~4573252~~ 4582311
23	Quality control Test Charges 1%								50000.00
24	~~Miscellaneous and Unforessen other~~ Charges 8%								~~365860.00~~ 367689.00
								Total	4989112.00
	Ruppes.Fifty Lakhs Only								

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PW,P & IWTD -SR-2016-17
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.
5 This Work is not included in any other work taken up

Assistant Engineer
Ward No 14

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.

ನಂ. JC/O/AS/06/17-18 ದಿನಾಂಕ : 19/4/17
ರೂ. Rupees Fifty Lakhs - Only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಜಂಟಿ ಆಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ. ಬೆಂಗಳೂರು

ನಂ. CE/D2/TS/46/17-18 ದಿನಾಂಕ : 28/4/17
ರೂ. 50.00 Lakhs (Rupees Fifty Lakhs Only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಮುಖ್ಯ ಅಭಿಯಂತರರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ. ಬೆಂಗಳೂರು

Improvements to 1st cross, 1st A cross, 1st B cross, 2nd B, cross, 3rd cross 4th main and 5th main Roads of Defence colony in Ward No. 14, Bagalagunte.

Improvements to 1st cross, 2nd 1st A cross, 1st B cross, 2nd D cross, 3rd cross, 4th main and 5th main roads of Difence colony in ward No. 14, Bogalagunte

Executive Engineer

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬೆ.ಮಾ.ಸಂ.ನಿ. ನಗರ-ಪಶ್ಚಿಮ
ಬಾಗಲಗುಂಟೆ, ಯಶವಂತಪುರ
ಬೆಂಗಳೂರು